

Express Mail No: EV350816789US
Attorney Docket: AEIPCSupDiv3

**IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE**

In Re the Application of: Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev

Serial Number: New: _____ Parent: 10/222,167

Filed: New: _____ Parent: August 16, 2002

For: New: Autobias Driving a High Frequency Power System
 Parent: High Frequency Power System and Related Methods

Group Art Unit: New: _____ Parent: 2838

Examiner: New: _____ Parent: Berhane, A.

Assignee: Advanced Energy Industries, Inc.

CONTINUING APPLICATION COVER SHEET*

FOR

A TRUE AND CORRECT COPY OF PARENT CASE DECLARATION

- * This Continuing Application Cover Sheet is provided for the convenience of Patent Office personnel, to indicate the new caption and title and thus minimize the risk of loss in the event documents are separated from the file.

Express Mail No.: *EL415555078US*

Attorney Docket:PC Supply-US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

In Re the Application of: Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev

Serial Number:

Filed:

For: High Frequency Switch-mode DC Powered Computer System

Group Art Unit:

Examiner:

Assignee: Advanced Energy Industries, Inc.

DECLARATION FOR PATENT APPLICATION

This Declaration is made by Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev.

I, Robert M. Porter, hereby declare:

- I am a citizen of the United States of America and that my residence address is:
114 Arikaree Peak Court, Livermore, CO 80536.

I, Gennady G. Gurov, hereby declare:

- I am a citizen of the Russian Federation residing in the United States of America and
that my residence address is: 4936 Dakota Drive, Fort Collins, Colorado, 80528

I, Anatoli V. Ledenev, hereby declare:

- I am a citizen of the Russian Federation and are residing in the United States of
America and that my residence address is: 719 Parliament Court, Fort Collins,
Colorado, 80525

We, Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev each hereby declare:

We believe that we are the original, first, and joint inventors of the subject matter which is claimed
and for which a patent is sought on the invention entitled "High Frequency Switch-mode DC

Powered Computer System”, and

- as originally entitled "Method and Apparatus for Powering Low Voltage High Current Electronics", the specification of which was filed as United States application number 60/125,768, filed on March 23, 1999, (the "Original US Application"), and
- as originally entitled "Method and Apparatus for Storing and Delivering Energy to Low Voltage High Current Electronics", the specification of which was filed as United States application number 60/133,252, filed on May 8, 1999, (the "Original US Application"), and
- as originally entitled "System for Controlling the Delivery of Power for Low Voltage, High Current Applications", the specification of which was filed as United States application number 60/142,102, filed on July 2, 1999, (the "Original US Application"), and
- as originally entitled "Method and Apparatus for Powering Low Voltage High Current Electronics", the specification of which was filed as United States application number 60/144,342, filed on July 16, 1999 (the "Original US Application"),
- and also as a PCT Application filed on March 23, 2000, entitled "High Frequency Switch-mode DC Powered Computer System", assigned to the above mentioned assignee, and designating the United States of America; this PCT Application being filed while the Original US Applications were pending.

We hereby state that we have reviewed and understand the contents of the above-identified specifications, including the claims.

We acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56(a). Further, insofar as the subject matter of any claims of this application was not disclosed in the prior United States or PCT International application we acknowledge the duty to disclose information which is known to be material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 3/23/2000

Robert M. Porter
Robert M. Porter

UNITED STATES OF AMERICA)
STATE OF COLORADO)ss.
COUNTY OF LARIMER)

SUBSCRIBED AND SWORN to before me in the County of Larimer, State of Colorado, United States of America, by
Robert M. Porter, this 23 day of March, 2000.

WITNESS my hand and official seal pursuant to the authority vested in me as a Notary Public by the State of Colorado.

Patricia Sorbom
Notary Public
My Commission Expires: 3-2-2002

Date: 3/23/2000

Gennady G. Gurov
Gennady G. Gurov

UNITED STATES OF AMERICA)
STATE OF COLORADO)ss.
COUNTY OF LARIMER)

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Gennady G. Gurov, this 23 day of March, 2000.

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Patricia Sorbom
Notary Public
My Commission Expires: 3-2-2002

Date: 3/23/2000

Anatoli V. Ledenev
Anatoli V. Ledenev

UNITED STATES OF AMERICA)
STATE OF COLORADO)ss.
COUNTY OF LARIMER)

SUBSCRIBED AND SWORN to before me in the County of Larimer, State of Colorado, United States of America, by
Anatoli V. Ledenev, this 23 day of March, 2000.

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Notary Public
My Commission Expires: 3-2-2002

decl.us

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Assignee: Advanced Energy Industries, Inc.

CONTINUING APPLICATION COVER SHEET*

FOR

**A TRUE AND CORRECT COPY OF THE ASSIGNMENT OF PATENT RIGHTS FILED
IN THE PARENT APPLICATION AND RECORDED ON MARCH 23, 2000 FROM
ROBERT M. PORTER, GENNADY G. GUROV, ANATOLI V. LEDENEV TO
ADVANCED ENERGY INDUSTRIES, INC., RECORDED AT REEL/FRAME:
010642/0147 AND THE CORRESPONDING NOTICE OF RECORDATION AND
RECORDATION COVER SHEET**

* This Continuing Application Cover Sheet is provided for the convenience of Patent Office personnel, to indicate the new caption and title and thus minimize the risk of loss in the event documents are separated from the file.



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 20, 2000

PTAS

SANTANGELO LAW OFFICES, P.C.
LUKE SANTANGELO
125 SOUTH HOWES, 3RD FLOOR
FORT COLLINS, CO 80521



101304497A

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/23/2000

REEL/FRAME: 010642/0147
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LEDENEV, ANATOLI V.

DOC DATE: 03/23/2000

ASSIGNOR:

GUROV, GENNADY G.

DOC DATE: 03/23/2000

ASSIGNOR:

PORTER, ROBERT M.

DOC DATE: 03/23/2000

ASSIGNEE:

ADVANCED ENERGY INDUSTRIES, INC.
1625 SHARP POINT DRIVE
FORT COLLINS, COLORADO 80525

SERIAL NUMBER: 09534641

PATENT NUMBER:

FILING DATE:

ISSUE DATE:

010642/0147 PAGE 2

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-03-2000

FORM PTO-1595
(Rev. 6-93)U.S. DEPT. OF COMMERCE
Patent and Trademark OfficeTo the Honorable Commissioner of I
copy thereof.

101304497

ached original documents or

1. Name of conveying party(ies): Anatoli V. Ledenev,
Gennady G. Gurov, Robert M. PorterAdditional name(s) of conveying party(ies) attached? ☐ Yes
☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Execution Date(s): March 23, 2000.

2. Name and address of receiving party(ies)

Name: Advanced Energy Industries, Inc.

Internal Address:

Street Address: 1625 Sharp Point Drive

City: Fort Collins State: CO Zip: 80525

Additional name(s) & address attached? ☐ Yes
☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:
March 23, 2000, entitled: "High Frequency Switch-mode DC Powered Computer System"

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

09/534641

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: Luke Santangelo

Internal Address: Santangelo Law Offices, P.C.

Street Address: 125 South Howes, 3rd Floor

City: Fort Collins State: Colorado Zip: 80521

6. Total number of applications and patents
involved: _____

7. Total fee (37 CFR 3.41)\$ 40.00

- ☒ Enclosed
- ☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by
deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a
true copy of the original document.*

LUKE SANTANGELO

Name of Person Signing

Luke Santangelo

Signature

March 23, 2000.

Date

Total number of pages including cover sheet, attachments, and document:

13/31/2000 KARLING 00000024 09534641

14 FC:581

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademark, Box Assignments

Washington, DC 20231

1c564 U.S. PRO

09/534641

03/23/00

Express Mail No.: *EL415555078US*
Attorney Docket:PC Supply-US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

In Re the Application of: Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev

Serial Number:

Filed:

For: High Frequency Switch-mode DC Powered Computer System

Group Art Unit:

Examiner:

Assignee: Advanced Energy Industries, Inc.

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT document is between and among, Robert M. Porter, individually, whose address is: 114 Arikaree Peak Court, Livermore, Colorado, 80536, Gennady G. Gurov, individually, whose address is: 4936 Dakota Drive, Fort Collins, Colorado, 80528, and Anatoli V. Ledenev, individually, whose address is: 719 Parliament Court, Fort Collins, Colorado, 80525, (each an "Assignor") and Advanced Energy Industries, Inc., having its principal office at: 1625 Sharp Point Drive, Fort Collins, CO 80525 (the "Assignee").

WHEREAS Assignor has conceived or developed technology relating to a "High Frequency Switch-mode DC Powered Computer System" which for the purpose of this assignment further includes those improvements which are related to the subject matter of such technology to the extent conceived or developed during the time serving as a consultant or employee of the Assignee, or improvements related to such technology which are identified, developed, or conceived using trade secret or confidential information of the Assignee, or which are likely to cause disclosure of such trade secret or confidential information (the "Invention");

WHEREAS each Assignor, either by him/herself or in conjunction with other individuals, may be an inventor of the Invention;

WHEREAS each Assignor acknowledges his/her obligation to assign all right, title and interest in the Invention to Assignee; and

WHEREAS each Assignor desires to formalize his/her obligation for assignment of all right, title and interest to the Invention to Assignee to the extent he/she has any such rights worldwide;

NOW, THEREFORE, for good and valuable consideration, the parties hereby agree as follows:

1. Each Assignor warrants that:

- a. he/she has the authority to assign all right, title and interest originated now or hereafter by him/her involving the Invention,
- b. he/she has conveyed no right, title, or interest in the Invention to any party other than the Assignee,
- c. to the extent each individual Assignor conducted any efforts relevant to the ownership of all rights to the Invention under, on behalf of, or through any entity or assumed name, he/she has the authority to act as agent for such an entity and to fully transfer such rights, and
- d. at the time of signing of this Assignment, he/she neither knows nor has reason to know of any outstanding right, title, or interest in the Invention inconsistent with a full assignment of rights to the Assignee other than any right, title, or interest which may exist as a result of any coinventorship.

2. Each Assignor, for good and valuable consideration, hereby sells, grants, transfers, and assigns to the Assignee the entire right, title, and interest in and to the Invention, including, but not limited to:

- a. all such worldwide rights to make, use, and sell the Invention,
- b. any applications for United States or foreign patents relating to the Invention, and specifically to the above-entitled application, and to make a claim for any priority to which such applications are entitled, and to any division, substitution, continuation or continuation-in-part, of such applications, all patents which may be granted thereon, and all reissues and extensions thereof,
- c. the right to file applications for United States or foreign patents based upon the Invention, and to make a claim for any priority to which such applications are entitled, and to any division, substitution, continuation, or continuation-in-part, of such applications, all patents which may be granted thereon, and all reissues and extensions thereof,
- d. all related rights involving the Invention in any country such as utility-model registrations, inventor's certificates and the like, and all rights, titles, and interests involving

the Invention under any foreign government, and

e. all rights to any documents, notes, and evidence regarding any aspect of the Invention.

3. Each Assignor covenants that he/she will not execute any agreement in conflict with this Assignment and will not take or assist in taking any actions which might tend to diminish the scope of protection available to the Assignee for the Invention. Each Assignor covenants that he/she will promptly and continuously inform the Assignee of any articles, patents, or other references or prior art of which he/she becomes aware which may be material to the assessment of patentability of the Invention.

4. Each Assignor further covenants and agrees that he/she will communicate to the Assignee any facts known to him/her respecting any improvements encompassed by the Invention, and will testify in any legal proceeding, sign all lawful papers, execute all division, continuation, continuation-in-part, substitute, foreign, and reissue applications, make all rightful oaths, and generally do everything possible to aid the Assignee to obtain and enforce full protection and title in and to said Invention and to such improvements in all countries without further consideration but at the expense of the Assignee.

5. Each Assignor grants the firm of Santangelo Law Offices, P.C., the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office or any foreign patent office for recordation of this document, including but not limited to inserting the application number, the execution date, or the filing date of the above-entitled United States Patent Application based upon the Invention.

6. This assignment shall be binding on all parties, their heirs, executors, administrators, successors, and/or assigns, and may be recorded in the United States Patent and Trademark Office or elsewhere. In the event any provision of this Agreement is found to be unenforceable or to be unreasonable in scope, such provision shall be modified to the extent necessary to make it enforceable, and as so modified, this Agreement shall remain in full force and effect.

Date: 3/23/2000

Robert M. Porter
Robert M. Porter

UNITED STATES OF AMERICA)
STATE OF COLORADO)ss.
COUNTY OF LARIMER)

SUBSCRIBED AND SWORN to before me in the County of Larimer, State of Colorado, United States of America, by
Robert M. Porter, this 23 day of March, 2000.
WITNESS my hand and official seal pursuant to the authority vested in me as a Notary Public by the State of Colorado.

Patricia Sarton
Notary Public
My Commission Expires: 3-2-2002

Date: 3/23/2000

Gennady G. Gurov
Gennady G. Gurov

UNITED STATES OF AMERICA)
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Examiner:
Assignee: Advanced Energy Industries, Inc.

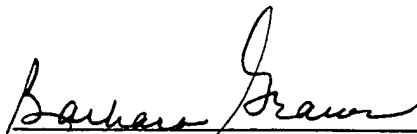


CERTIFICATE OF EXPRESS MAILING

I, Barbara Graves, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.
2. I have this day deposited the attached Assignment of Patent Rights along with a recordation cover sheet with the United States Postal Service as "Express Mail" for mailing to the Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: March 23, 2000


Barbara Graves

Express Mail No: EV350816789US
Attorney Docket: AEIPCSupDiv3

IN THE UNITED STATES PATENT AND
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Examiner: New: _____ Parent: Berhane, A.

Assignee: Advanced Energy Industries, Inc.

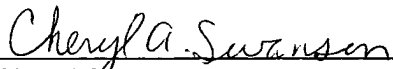
CERTIFICATE OF EXPRESS MAILING

I, Cheryl Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.

2. I have this day deposited a true and correct copy of the Assignment of Patent Rights filed in the parent application and recorded on March 23, 2000 from Robert M. Porter, Gennady G. Gurov, Anatoli V. Ledenev to Advanced Energy Industries, Inc., recorded at reel/frame: 010642/0147, pursuant to 37 C.F.R. §3.21 and MPEP §306, and the corresponding Notice of Recordation and Recordation Cover Sheet, with newly attached cover sheet with the United States Postal Service as "Express Mail" for mailing to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated this 23 day of June, 2003.


Cheryl Swanson

Express Mail No: EV350816789US

Attorney Docket: AEIPCSupDiv3

IN THE UNITED STATES PATENT AND
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A TRUE AND CORRECT COPY OF PARENT CASE POWER OF ATTORNEY

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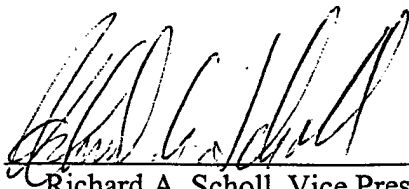
Examiner:

Assignee: Advanced Energy Industries, Inc.

POWER OF ATTORNEY

I, Richard A. Scholl, Vice President, Advanced Energy Industries, Inc., hereby appoint Santangelo Law Offices, P.C., whose mailing address is 125 South Howes, Third Floor, Fort Collins, Colorado 80521, including Luke Santangelo, whose registration number before the United States Patent and Trademark Office is 31,997 and Craig R. Miles, whose registration number before the United States Patent and Trademark Office is P45,954 as Advanced Energy Industries, Inc.'s attorneys/agents to prosecute this application entitled "High Frequency Switch-mode DC Powered Computer System" and to transact all business in the Patent Office connected therewith.

Dated this 23rd day of March, 2000.

By: 
Richard A. Scholl, Vice President
Advanced Energy Industries, Inc.

Express Mail No: EV350816789US
Attorney Docket: AEIPCSupDiv3

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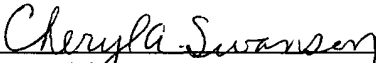
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2. I have this day deposited the attached copy of the original Power of Attorney with the newly attached cover sheet with the United States Postal Service as "Express Mail" for mailing to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated this 23 day of June, 2003.


Cheryl Swanson